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On May 15, 2000

TOWNSEND and TOWNSEND and CREW LLP

By: Kathryn A. Deglantone

**PATENT**  
Attorney Docket No.: 18041-000110US

L. Park  
7-28-00  
#5/IDS

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

William P. Van Antwerp, *et al.*

Application No.: 09/461,627

Filed: December 14, 1999

For: DETECTION OF BIOLOGICAL MOLECULES USING BORONATE-BASED CHEMICAL AMPLIFICATION AND OPTICAL SENSORS

Examiner: Unknown

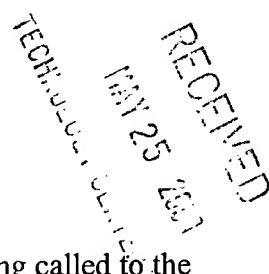
Art Unit: 3736

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.97 and §1.98**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the United States patents, which are readily available to the Examiner, are not enclosed. Applicant would be glad to furnish copies of the U.S. Patents if the Examiner so desires. All of the remaining references can be found in parent case, U.S. Patent Application Serial No. 08/749,366, filed November 21, 1996 (37 CFR §1.98(d)). It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

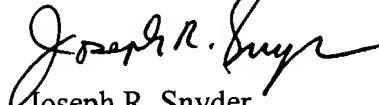


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As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



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SF 1095566 v1

MAY 18, 2000  
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**LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT (Use several sheets if necessary)**

Applicant: William P. Van Antwerp, et al.

Filing Date: December 14, 1999

Group: 3736

## Reference Designation

## U.S. PATENT DOCUMENTS

Page 1

Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
AA	4,401,122	08/30/83	Clark, Jr.	128	635	
AB	4,428,366	01/31/84	Findl et al.	128	15	
AC	4,496,722	01/85	Gallop et al.	544	69	
AD	4,655,225	04/07/87	Daehn et al.	128	633	
AE	4,680,268	07/14/87	Clark, Jr.	435	291	
AF	4,805,623	02/21/89	Jobsis	128	633	
AG	4,875,486	10/24/89	Rapoport et al.	128	653	
AH	4,882,492	11/21/89	Schlager	250	346	
AI	4,974,929	12/04/90	Curry	350	96.29	
AJ	5,028,787	07/02/91	Rosenthal et al.	250	341	
AK	5,054,487	10/08/91	Clarke	128	633	
AL	5,070,874	12/10/91	Barnes et al.	128	633	
AM	5,077,476	12/31/91	Rosenthal	250	341	
AN	5,086,229	02/04/92	Rosenthal et al.	250	341	
AO	5,101,814	04/07/92	Palti	128	634	
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AQ	5,137,833	08/11/92	Russell	436	94	
AR	5,196,709	03/23/93	Berndt et al.	250	458.1	
AS	5,203,328	04/20/93	Samuels et al.	128	633	ECH
AT	5,246,867	09/21/93	Lakowicz et al.	436	95	ECH
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AV	5,281,825	01/25/94	Berndt et al.	250	458.1	ECH
AW	5,342,789	08/30/94	Chick et al.	436	501	ECH
AX	5,353,790	10/11/94	Jacques et al.	128	633	ECH
AY	5,362,307	11/08/94	Guy et al.	604	20	ECH
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ABB	5,458,140	10/17/95	Eppstein et al.	128	632	
ACC	5,476,094	12/19/95	Allen et al.	128	634	
ADD	5,495,850	03/05/96	Zuckerman	128	634	
AEE	5,503,770	04/02/96	James et al.	252	301.16	
AFF	5,512,246	04/30/96	Russell et al.	422	57	
AGG	5,628,310	05/97	Rao	600	317	
AHH	6,040,194	03/21/00	Chick et al.	436	501	

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PATENT & TRADEMARK OFFICE

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	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
AII	2 284 809	06/95	Great Britain			
AJJ	WO 82/01804	05/27/82	PCT			
AKK	EP 0 673 622	0127/89	Europe			
ALL	EP 0 693 271	01/24/96	Europe			
AMM	WO 96/03074	02/08/96	PCT			
ANN	EP 0729 962	09/04/96	Europe			
AOO	WO 97/19188	05/29/97	PCT			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

APP	Arnold et al. <i>Anal. Chem.</i> , 62:1457-64 (1990).
AQQ	Bostick et al. <i>Analytical Chemistry</i> , 47:447-52 (1975).
ARR	DCCT Research Group. <i>New England Journal of Medicine</i> , 329:977-86 (1993).
ASS	Falasca et al. <i>Biochimica et Biophysica Acta</i> , 577:71-81 (1979).
ATT	Gough et al. <i>Diabetes</i> , 44:1005-9 (1995).
AUU	Guilbault et al. <i>Anal. Chem.</i> , 40:190 (1968).
AVV	Hawkins et al. <i>J Am. Chem. Soc.</i> , 82:3863-3866 (1960).
AWW	James et al. <i>J. Chem. Soc., Chem. Commun.</i> , pp. 477-78 (1994).
AXX	James et al. <i>J. Am. Chem. Soc.</i> , 117:8982-87 (1995).
AYY	James et al. <i>Nature</i> , 374:345-47 (1995).
AZZ	Lakowicz et al. <i>Sensors and Actuators B</i> , 11:133-143 (1993)
AAAA	Lakowicz et al. <i>J. Fluorescence</i> , 4 (1):117-36 (1994).
ABBB	Lin et al. <i>J. Org. Chem.</i> , 44 (25):4701-03 (1979).
ACCC	Marquardt et al. <i>Anal. Chem.</i> 65:3271-78 (1993).
ADDD	Monroe. <i>Am. Clin. Lab.</i> , 8 (12):8-16 (1989).
AEEE	Nakashima et al. <i>Chemistry Letters</i> , pp. 1267-70 (1994).
AFFF	Pilsof et al. <i>Anal. Chem.</i> , 54:1698-1701 (1982).
AGGG	Reach et al. <i>Anal. Chem.</i> , 64 (6):381-86 (1992).
AHHH	Sandanayake et al. <i>Chemistry Letters</i> , pp. 139-40 (1995).
AIII	Uziel et al. <i>Biochem. and Biophys. Res. Commun.</i> , 180 (3):1233-49 (1991).
AJJJ	Yoon et al. <i>J. Am. Chem. Soc.</i> , 114:5874-75 (1992).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.